

EAST Search History

L20	0	SPROULS-JOHN.in. and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:15
L21	0	VERMA-PRAFULLA.in. and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:17
L22	731610	ALCORN- ROBERT -L.in. and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:18
L23	2	PERIAN-SCOTT-N.in. and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:20
L24	2	"CREDIT-SUISSE-CAYMAN-ISLANDS -BRANCH.as.and" (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:21
L25	132	FONTAINE-JOHN "S.in.and" (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible	US-PGPUB; USPAT	OR	ON	2006/11/16 16:22
L26	2	FONTAINE-JOHN "S.in.and" (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:22
L27	2	"RINZEL-DANIEL-F.in.and" (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:23
L28	2	"BROWN-DOROTHY-R.in.and" (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:23

EAST Search History

L29	2	"ETESSE-CHRISTOPHER.in.and" (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:24
L30	2	"YASKIN-DAVID.in.and" (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:24
L31	2	"YASKIN-DAVID.in.and" (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:24
S55 4	2	subscrib\$4 same rule\$1 same match\$3 same notify\$4	USPAT	OR	OFF	2006/11/14 15:26
S55 5	2	subscrib\$4 same rule\$1 same match\$3 same notify\$4	USPAT	OR	ON	2006/11/14 15:27
S55 6	1	subscrib\$4 same rule\$1 same match\$3 same notify\$4 and event	USPAT	OR	ON	2006/11/16 11:33
S55 7	38	(user adj right) same((text adj tool\$1) or editor\$3)	US-PGPUB; USPAT	OR	ON	2006/11/16 11:41
S55 8	480	(user adj right or authenti\$4 or verify\$4) same((text adj tool\$1) or editor\$3)	US-PGPUB; USPAT	OR	ON	2006/11/16 11:42
S55 9	59	(user adj (right or authenti\$4 or verify\$4)) same((text adj tool\$1) or editor\$3)	US-PGPUB; USPAT	OR	ON	2006/11/16 11:42
S56 0	28	(user adj (right or authenti\$4 or verify\$4)) same ((text adj tool\$1) or editor\$3) and (API or (applicaiton adj program adj interface) or gui or (graphical adj user adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 13:20
S56 1	1	("6909693").PN.	USPAT	OR	OFF	2006/11/16 13:22
S56 2	1	("20020186660").PN.	US-PGPUB; USPAT	OR	OFF	2006/11/16 13:22
S56 3	1	("20040215753").PN.	US-PGPUB; USPAT	OR	OFF	2006/11/16 14:56
S56 4	1	("20040258407").PN.	US-PGPUB; USPAT	OR	OFF	2006/11/16 13:23
S56 5	1	("20050135252").PN.	US-PGPUB; USPAT	OR	OFF	2006/11/16 13:26

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	("9826628").PN.	US-PGPUB; USPAT	OR	OFF	2006/11/16 15:26
L2	0	("9904536").PN.	US-PGPUB; USPAT	OR	OFF	2006/11/16 14:57
L3	915	(user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:28
L4	0	(user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatiblr	US-PGPUB; USPAT	OR	ON	2006/11/16 15:29
L5	132	(user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible	US-PGPUB; USPAT	OR	ON	2006/11/16 15:29
L6	8	(user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible same file	US-PGPUB; USPAT	OR	ON	2006/11/16 15:32
L7	2	@ad<"19990630" and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible same file	US-PGPUB; USPAT	OR	ON	2006/11/16 15:34
L8	29	@ad<"19990630" and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible	US-PGPUB; USPAT	OR	ON	2006/11/16 16:12
L9	29	@ad<"19990630" and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and compatible same (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:40
L10	24	@ad<"19990630" and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) same (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:44

EAST Search History

L11	2	@ad<"19990630" and (user adj right or permit\$3) same (tool\$1 same edit\$4) same (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:43
L12	8	@ad<"19990630" and (user adj right or permit\$3 or authenticat\$4) same (tool\$1 same edit\$4) same (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:43
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L14	42	@ad<"19990630" and (user adj right or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:45
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L16	0	ANAND-RAJAN.in. and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:13
L17	0	KRISHNAMURTHY-UDHAYAKUMAR.in. and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:14
L18	0	LIU-JACKSON-K.in. and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:14
L19	0	LOCKHART-CLAYTON-M.in. and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible.clm.	US-PGPUB; USPAT	OR	ON	2006/11/16 16:14

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	("9826628").PN.	US-PGPUB; USPAT	OR	OFF	2006/11/16 15:26
L2	0	("9904536").PN.	US-PGPUB; USPAT	OR	OFF	2006/11/16 14:57
L3	915	(user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:28
L4	0	(user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatiblr	US-PGPUB; USPAT	OR	ON	2006/11/16 15:29
L5	132	(user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible	US-PGPUB; USPAT	OR	ON	2006/11/16 15:29
L6	8	(user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible same file	US-PGPUB; USPAT	OR	ON	2006/11/16 15:32
L7	2	@ad<"19990630" and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible same file	US-PGPUB; USPAT	OR	ON	2006/11/16 15:34
L8	29	@ad<"19990630" and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface)) same compatible	US-PGPUB; USPAT	OR	ON	2006/11/16 15:39
L9	29	@ad<"19990630" and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) and compatible same (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:40
L10	24	@ad<"19990630" and (user adj right or access\$4 or permit\$3) same (tool\$1 same edit\$4) same (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:44

EAST Search History

L11	2	@ad<"19990630" and (user adj right or permit\$3) same (tool\$1 same edit\$4) same (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:43
L12	8	@ad<"19990630" and (user adj right or permit\$3 or authenticat\$4) same (tool\$1 same edit\$4) same (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:43
L13	2	@ad<"19990630" and (user adj right or permit\$3) same (tool\$1 same edit\$4) same (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:45
L14	42	@ad<"19990630" and (user adj right or permit\$3) same (tool\$1 same edit\$4) and (API or (application adj program adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 15:45
S55 4	2	subscrib\$4 same rule\$1 same match\$3 same notify\$4	USPAT	OR	OFF	2006/11/14 15:26
S55 5	2	subscrib\$4 same rule\$1 same match\$3 same notify\$4	USPAT	OR	ON	2006/11/14 15:27
S55 6	1	subscrib\$4 same rule\$1 same match\$3 same notify\$4 and event	USPAT	OR	ON	2006/11/16 11:33
S55 7	38	(user adj right) same((text adj tool\$1) or editor\$3).	US-PGPUB; USPAT	OR	ON	2006/11/16 11:41
S55 8	480	(user adj right or authenti\$4 or verify\$4) same((text adj tool\$1) or editor\$3)	US-PGPUB; USPAT	OR	ON	2006/11/16 11:42
S55 9	59	(user adj (right or authenti\$4 or verify\$4)) same((text adj tool\$1) or editor\$3)	US-PGPUB; USPAT	OR	ON	2006/11/16 11:42
S56 0	28	(user adj (right or authenti\$4 or verify\$4)) same ((text adj tool\$1) or editor\$3) and (API or (applicaiton adj program adj interface) or gui or (graphical adj user adj interface))	US-PGPUB; USPAT	OR	ON	2006/11/16 13:20
S56 1	1	("6909693").PN.	USPAT	OR	OFF	2006/11/16 13:22
S56 2	1	("20020186660").PN.	US-PGPUB; USPAT	OR	OFF	2006/11/16 13:22
S56 3	1	("20040215753").PN.	US-PGPUB; USPAT	OR	OFF	2006/11/16 14:56
S56 4	1	("20040258407").PN.	US-PGPUB; USPAT	OR	OFF	2006/11/16 13:23

EAST Search History

S56	1	("20050135252").PN.	US-PGPUB; USPAT	OR	OFF	2006/11/16 13:26
5						


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Relevance scale

1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research****Publisher:** IBM PressFull text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [A confederation of tools for capturing and accessing collaborative activity](#)

Scott Minneman, Steve Harrison, Bill Janssen, Gordon Kurtenbach, Thomas Moran, Ian Smith, Bill van Melle

January 1995 **Proceedings of the third ACM international conference on Multimedia****Publisher:** ACM PressFull text available: [htm\(73.96 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: CSCW, activity capture, content-and content-based indexing and retrieval, digital audio and video, distributed multimedia systems, real-time indexing, usability, user interfaces

3 [Courses: An introduction to sketch-based interfaces](#)

Joseph LaViola, Randall Davis, Takeo Igarashi

July 2006 **Material presented at the ACM SIGGRAPH 2006 conference SIGGRAPH '06****Publisher:** ACM PressFull text available: [pdf\(31.58 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Sketch-based interfaces are a natural, pencil-and-paper-like approach to interacting with a variety of applications, including conceptual modeling, animation, and note-taking systems. This course offers an in-depth discussion of sketch-based interface design, ranging from simple gestural commands to complex sketch-understanding systems. Attendees will learn how these interfaces are designed and how to develop their own.

4 [Q focus: system evolution: The heart of eclipse](#)

 Dan Rubel
October 2006 **Queue**, Volume 4 Issue 8

Publisher: ACM Press

Full text available: [pdf\(766.35 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

[htm\(21.08 KB\)](#)

A look inside and extensible plug-in architecture

5 Real-time shading

 Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(7.39 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

6 TIPSTER architecture: TIPSTER text phase II architecture requirements

Architecture Committee

May 1996 **Proceedings of a workshop on held at Vienna, Virginia: May 6-8, 1996**

Publisher: Association for Computational Linguistics

Full text available: [pdf\(1.34 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

The requirements herein are derived from several Government agencies. Some requirements may be traced to specific documents given below. Interviews with Government personnel were also a source. When possible, the source documents, shown as (n), indicate the basis for the TIPSTER requirement:0. Derived Requirement.1. BAA 93-36 and Scenarios2. Architecture Requirements (draft), Sarah Taylor, 13 March 19943. FBIS CONOPS (draft), MITRE, 28 February 19944. ADEPT CONOPS (working draft), MITRE, 4 Febru ...

7 Article abstracts with full text online: Component evolution and versioning state of the art

 art

Alexander Stuckenholz

January 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 1

Publisher: ACM Press

Full text available: [pdf\(213.99 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Emerging component-based software development architectures promise better re-use of software components, greater flexibility, scalability and higher quality of services. But like any other piece of software too, software components are hardly perfect, when being created. Problems and bugs have to be fixed and new features need to be added. This paper analyzes the problem of component evolution and the incompatibilities which result during component upgrades. We present the state of the art in co ...

8 UI and Applications: A graphical user interface toolkit approach to thin-client computing

 computing

Simon Lok, Steven K. Feiner, William M. Chiong, Yoav J. Hirsch

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available: [pdf\(1.56 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Network and server-centric computing paradigms are quickly returning to being the dominant methods by which we use computers. Web applications are so prevalent that the role of a PC today has been largely reduced to a terminal for running a client or viewer

such as a Web browser. Implementers of network-centric applications typically rely on the limited capabilities of HTML, employing proprietary "plug ins" or transmitting the binary image of an entire application that will be executed on the cl ...

Keywords: client-server systems, network computing, remote method invocation, user interface toolkit

9 DVI—a digital multimedia technology 

 G. David Ripley

July 1989 **Communications of the ACM**, Volume 32 Issue 7

Publisher: ACM Press

Full text available:  pdf(4.55 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A digital presentation technology that manages anything from text to full-motion video has the potential of expanding the usefulness of personal computers, while rendering them less intimidating.

10 Practitioner reports: Using predicate fields in a highly flexible industrial control system 

 Shay Artzi, Michael D. Ernst

October 2005 **Companion to the 20th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '05**

Publisher: ACM Press

Full text available:  pdf(229.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Predicate fields allow an object's structure to vary at runtime based on the object's state: a predicate field is present or not, depending on the values of other fields. Predicate fields and related concepts have not previously been evaluated outside a research environment. We present a case study of two industrial applications with similar requirements, one of which uses predicate fields and one of which does not. The use of predicate fields was motivated by requirements for high flexibility, ...

Keywords: classifiers, experimental control system, predicate fields, predicates, structure, user interface development

11 Finding application errors and security flaws using PQL: a program query language 

 Michael Martin, Benjamin Livshits, Monica S. Lam

October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05**, Volume 40 Issue 10

Publisher: ACM Press

Full text available:  pdf(317.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A number of effective error detection tools have been built in recent years to check if a program conforms to certain design rules. An important class of design rules deals with sequences of events associated with a set of related objects. This paper presents a language called PQL (Program Query Language) that allows programmers to express such questions easily in an application-specific context. A query looks like a code excerpt corresponding to the shortest amount of code that would violate a ...

Keywords: SQL injection, bug finding, pattern matching, program traces, resource leaks, web applications

12 A structural view of the Cedar programming environment 

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 8 Issue 4

**Publisher:** ACM PressFull text available: [pdf\(6.32 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

13 Research papers: Towards Wikis as semantic hypermedia

Robert Tolksdorf, Elena Paslaru Bontas Simperl

August 2006 **Proceedings of the 2006 international symposium on Wikis WikiSym '06****Publisher:** ACM PressFull text available: [pdf\(239.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Similarly to the Web Wikis have advanced from initially simple ad-hoc solutions to highly popular systems of widespread use. This evolution is reflected by the impressive number of Wiki engines available and by the numerous settings and disciplines they have found applicability to in the last decade. In conjunction to these rapid advances the question on the fundamental principles underlying the design and the architecture of Wiki technologies becomes inevitable for their *systematic*

Keywords: Wikis, hypermedia, semantic web, semantic wikis**14 Visual haskell: a full-featured haskell development environment**

Krasimir Angelov, Simon Marlow

September 2005 **Proceedings of the 2005 ACM SIGPLAN workshop on Haskell Haskell '05****Publisher:** ACM PressFull text available: [pdf\(301.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe the design and implementation of a full-featured Haskell development environment, based on Microsoft's extensible Visual Studio environment. Visual Haskell provides a number of features not found in existing Haskell development environments: interactive error-checking, displaying of inferred types in the editor, and other features based on static properties of the source code. Visual Haskell also provides full support for developing and building multi-module Haskell projects, based on ...

Keywords: haskell development environment, visual studio**15 Heterogeneous distributed database systems for production use**

Gomer Thomas, Glenn R. Thompson, Chin-Wan Chung, Edward Barkmeyer, Fred Carter, Marjorie Templeton, Stephen Fox, Berl Hartman

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3**Publisher:** ACM PressFull text available: [pdf\(2.90 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

It is increasingly important for organizations to achieve additional coordination of diverse computerized operations. To do so, it is necessary to have database systems that can operate over a distributed network and can encompass a heterogeneous mix of computers, operating systems, communications links, and local database management systems. This paper outlines approaches to various aspects of heterogeneous distributed data management and describes the characteristics and architectures of ...

16 Virtual machine monitors: Xen and the art of virtualization

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf

Neugebauer, Ian Pratt, Andrew Warfield
 October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Publisher: ACM Press

Full text available: [pdf\(168.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service. This paper presents Xen, an x86 virtual machine monit ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

17 Research: A database management system for office systems and advanced workstations

David M. Choy, Roger J. Bamford, Frank C. Tung
 September 1984 **ACM SIGOA Newsletter**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: [pdf\(620.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Over the past few years the amount of computing power and storage available to the office worker has greatly increased, resulting in the introduction of increasingly sophisticated and varied office systems applications. Many of these applications operate on structured data that could be managed by a general-purpose database system, but are instead stored in flat files in an application-specific format. On the other hand, applications that operate on relatively unstructured data, such as for word ...

18 EROS: a fast capability system

Jonathan S. Shapiro, Jonathan M. Smith, David J. Farber
 December 1999 **ACM SIGOPS Operating Systems Review, Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: [pdf\(1.83 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

EROS is a capability-based operating system for commodity processors which uses a single level storage model. The single level store's persistence is transparent to applications. The performance consequences of support for transparent persistence and capability-based architectures are generally believed to be negative. Surprisingly, the basic operations of EROS (such as IPC) are generally comparable in cost to similar operations in conventional systems. This is demonstrated with a set of microbe ...

19 Constraints: An approach to engineer and enforce context constraints in an RBAC environment

Gustaf Neumann, Mark Strembeck
 June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: [pdf\(377.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an approach that uses special purpose RBAC constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks the actual values of one or more contextual attributes for predefined conditions. If these conditions are satisfied, the corresponding access request can be permitted. Accordingly, a *conditional permission* is an

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